

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 3, 2004, 18:46:09 ; Search time 66 Seconds

(without alignments)  
3834.206 Million cell updates/sec

Title: US-09-941-042C-1

Perfect score: 456

Sequence: 1 ggaacatattcaatacatt.....ggtaaaagcagttacagag 456

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*

- 1: /cgn2\_6/ptodata/2/ina/5A.COMB.seq.\*
- 2: /cgn2\_6/ptodata/2/ina/5B.COMB.seq.\*
- 3: /cgn2\_6/ptodata/2/ina/6A.COMB.seq.\*
- 4: /cgn2\_6/ptodata/2/ina/6B.COMB.seq.\*
- 5: /cgn2\_6/ptodata/2/ina/PCTUS.COMB.seq.\*
- 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	456	100.0	1030	2	US-08-508-786-5
2	456	100.0	1030	5	PCT-US96-12158-5
3	456	100.0	1294	2	US-08-508-786-4
4	456	100.0	1294	5	PCT-US96-12158-4
5	456	100.0	1372	2	US-08-508-786-3
6	456	100.0	1372	5	PCT-US96-12158-3
7	456	100.0	1988	2	US-08-508-786-2
8	456	100.0	1988	5	PCT-US96-12158-2
9	456	100.0	2010	2	US-08-508-786-1
10	456	100.0	2010	5	PCT-US96-12158-1
11	148	32.5	722	2	US-08-508-786-6
12	148	32.5	722	5	PCT-US96-12158-6
13	60.6	13.3	837	3	US-08-998-416-288
14	59.4	13.0	20674	4	US-09-641-638-651
15	57	12.5	53332	4	US-09-801-861-3
16	56.2	12.3	5152	4	US-10-204-708-73
17	55.6	12.2	636	3	US-08-998-416-1137
18	54.2	11.9	6040	4	US-10-204-708-70
19	53.6	11.8	14078	4	US-08-956-171E-191
20	52.8	11.6	615	3	US-08-998-416-186
21	52.8	11.6	1850	3	US-08-617-860B-32
22	52.8	11.6	4098	2	US-08-605-106-4
23	52.6	11.5	319	1	US-07-593-657-14
24	52.6	11.5	1241	3	US-07-593-657-6
25	52.6	11.5	1241	1	US-08-942-012B-3
26	51.6	11.3	6317	4	US-10-204-708-12
27	51.6	11.3	640681	4	US-09-790-988-1

c 28	51.4	11.3	665	2	US-08-883-795A-36	Sequence 36, Appl
c 29	51.4	11.3	3618	1	US-07-872-678A-36	Sequence 36, Appl
c 30	51.4	11.3	6659	4	US-10-204-708-6	Sequence 6, Appl
31	51	11.2	724	3	US-08-998-416-683	Sequence 683, App
32	50.8	11.1	665	2	US-08-883-795A-36	Sequence 36, Appl
33	50.8	11.1	10467	4	US-10-204-708-2	Sequence 2, Appl
34	50.4	11.1	640681	4	US-09-790-988-1	Sequence 1, Appl
c 35	49.8	10.9	6243	2	US-09-056-075-1	Sequence 1, Appl
c 36	49.6	10.9	19233	4	US-10-204-708-46	Sequence 46, Appl
c 37	49.4	10.8	11131	4	US-10-204-708-27	Sequence 27, Appl
38	49.2	10.8	5108	4	US-09-306-446C-8	Sequence 8, Appl
39	48.6	10.7	5852	1	US-07-867-106-2	Sequence 2, Appl
40	48.6	10.7	8093	4	US-10-204-708-32	Sequence 32, Appl
41	48.6	10.7	8920	2	US-08-446-855A-1	Sequence 1, Appl
42	48.6	10.7	8920	3	US-09-150-741-1	Sequence 1, Appl
c 43	48.4	10.6	19124	2	US-08-487-826B-13	Sequence 13, Appl
c 44	48.4	10.6	20674	4	US-09-641-638-651	Sequence 651, App
c 45	48	10.5	19233	4	US-10-204-708-45	Sequence 45, Appl

#### ALIGNMENTS

RESULT 1  
US-08-508-786-5  
; Sequence 5, Application US/08508786  
; Patent No. 5837876  
; GENERAL INFORMATION:  
; APPLICANT: Conkling, Mark A.  
; APPLICANT: Mendu, Nandini  
; APPLICANT: Song, Wen  
; TITLE OF INVENTION: Root Cortex Specific Gene Promoter  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &  
; ADDRESSEE: Gibson  
; STREET: Post Office Drawer 34009  
; CITY: Charlotte  
; STATE: No. 5837876th Carolina  
; COUNTRY: USA  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/508,786  
; FILING DATE:  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 5051-294  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 919-420-2200  
; TELEFAX: 919-881-3175  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1030 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-508-786-5

Query Match 100.0%; Score 456; DB 2; Length 1030;

Best Local Similarity 100.0%; Pred. No. 7.8e-86;

Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAAACATATTCAATACATTTGCTACTATCGTAGAATCTTTGTCCTT 60

Db 1 GGAAACATATTCAATACATTTGCTACTATCGTAGAATCTTTGTCCTT 60







ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &  
ADDRESSEE: Gibson  
STREET: Post Office Drawer 34009  
CITY: Charlotte  
STATE: No. 5837876th Carolina  
COUNTRY: USA  
ZIP: 28234  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/508,786  
FILING DATE:  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Sibley, Kenneth D.  
REGISTRATION NUMBER: 31,665  
REFERENCE/DOCKET NUMBER: 5051-294  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 919-420-2200  
TELEFAX: 919-881-3175  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1988 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-508-786-2

Query Match	100.0%;	Score 456;	DB 2;	Length 1988;
Best Local Similarity	100.0%;	Prod. No. 8.2e-86;		
Matches 456;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	GGAAACATATTC	CAATGTGCTACTCAT	AATCGCTAGATACTTTGTGCTTT 60
Db	959	GGAAACATATTC	CAATGTGCTACTCAT	AATCGCTAGATACTTTGTGCTTT 1018
Qy	61	GCTAATAAAGATCT	CGAAATAGCTTAGTT	TAATAATAAATAGCATATAGATTTTAGGA 120
Db	1019	GCTAATAAAGATCT	CGAAATAGCTTAGTT	TAATAATAAATAGCATATAGATTTTAGGA 1078
Qy	121	ATTAGTATTTTGAGT	TTAAATACATTAATG	ACTTCTTAACAGTTTTTATAATCCAAAGGCC 180
Db	1079	ATTAGTATTTTGAGT	TTAAATACATTAATG	ACTTCTTAACAGTTTTTATAATCCAAAGGCC 1138
Qy	181	ATGAAAAATTTAAAT	GTCTTTATAGTTTTAA	ACTTACTATATAATAATTTTCAATGTGTA 240
Db	1139	ATGAAAAATTTAAAT	GTCTTTATAGTTTTAA	ACTTACTATATAATAATTTTCAATGTGTA 1198
Qy	241	TTTAAATCGGTATAG	TTCGATATTTTTTTT	CAATTTATTTATAAAATAAAAAAACTTAC 300
Db	1199	TTTAAATCGGTATAG	TTCGATATTTTTTTT	CAATTTATTTATAAAATAAAAAAACTTAC 1258
Qy	301	AATTATCGGTACAGT	TATATAGATTTATATA	AAAAATCTACGGTTCTTCAGAGAAACCTTAA 360
Db	1259	AATTATCGGTACAGT	TATATAGATTTATATA	AAAAATCTACGGTTCTTCAGAGAAACCTTAA 1318
Qy	361	AATCGGTTTCGGT	GCGGACGGTTTCGAT	CGGTTTAGTTCGATTTTCAAAATATTCATTGACACT 420
Db	1319	AATCGGTTTCGGT	GCGGACGGTTTCGAT	CGGTTTAGTTCGATTTTCAAAATATTCATTGACACT 1378
Qy	421	CCTAGTTGTTGTTAT	PAGTTAAAAAGCAGT	TACAGAG 456
Db	1379	CCTAGTTGTTGTTAT	PAGTTAAAAAGCAGT	TACAGAG 1414

RESULT 8  
PCT-US96-12158-2  
; Sequence 2, Application PC/TUS9612158  
; GENERAL INFORMATION:

APPLICANT: Conkling, Mark A.  
 APPLICANT: Mendu, Nandini  
 APPLICANT: Song, Wen  
 TITLE OF INVENTION: Root Cortex Specific Gene Promoter  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &  
 ADDRESSEE: Gibson  
 STREET: Post Office Drawer 34009  
 CITY: Charlotte  
 STATE: North Carolina  
 COUNTRY: USA  
 ZIP: 28234  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: FatcatIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US96/12158  
 FILING DATE:  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Sibley, Kenneth D.  
 REGISTRATION NUMBER: 31,665  
 REFERENCE/DOCKET NUMBER: 5051-294  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 919-420-2200  
 TELEFAX: 919-881-3175  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1988 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 PCT-US96-12158-2

Query Match	100.0%;	Score 456;	DB 5;	Length 1988;
Best Local Similarity	100.0%;	Pred. No. 8.2e-86;		
Matches	456;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;
Qy	1	GGAAACATATTC	CAATACATGTG	TGCTGCTACTCATAATCGCTAGAGTAATCTTTGTGCCCTT 60
Db	959	GGAAACATATTC	CAATACATGTG	TGCTGCTACTCATAATCGCTAGAGTAATCTTTGTGCCCTT 1018
Qy	61	GCTAATAAAGAT	ACTTTGAAATAG	CTTGTAGTTTAAATATAAATAGCATAATAGATTTTAGGA 120
Db	1019	GCTAATAAAGAT	ACTTTGAAATAG	CTTGTAGTTTAAATATAAATAGCATAATAGATTTTAGGA 1078
Qy	121	ATTAGTATTTTG	AGTTTAAATTA	CTTACTTATTCGTTGTAACAGTTTTTATAATTCCAAGGCC 180
Db	1079	ATTAGTATTTTG	AGTTTAAATTA	CTTACTTATTCGTTGTAACAGTTTTTATAATTCCAAGGCC 1138
Qy	181	ATGAAAAATTTA	ATGCTTTATTA	TGTTTTTAAACCTTACTATATAAATTTTTCATATGTAAAA 240
Db	1139	ATGAAAAATTTA	ATGCTTTATTA	TGTTTTTAAACCTTACTATATAAATTTTTCATATGTAAAA 1198
Qy	241	TTTTAATCGGT	ATAGTTTCGAT	TATTTTTTCAATTTATTTTATAAAATAAAAAACCTTACCCCT 300
Db	1199	TTTTAATCGGT	ATAGTTTCGAT	TATTTTTTCAATTTATTTTATAAAATAAAAAACCTTACCCCT 1258
Qy	301	AAATTATCGGT	ACAGTTATAG	ATTTATATAAAAAATCTACGGTTCTTCAGAGAAGAACCTTAAA 360
Db	1259	AAATTATCGGT	ACAGTTATAG	ATTTATATAAAAAATCTACGGTTCTTCAGAGAAGAACCTTAAA 1318
Qy	361	AATCGGTTCCGT	CGGACGGTTC	GCATCGGTTTAGTCGATTTTCAAATATATTCATTGACACT 420
Db	1319	AATCGGTTCCGT	CGGACGGTTC	GCATCGGTTTAGTCGATTTTCAAATATATTCATTGACACT 1378
Qy	421	CCTAGTTGTTG	TTATAGGTAAA	AAGCAGTTACAGAG 456
Db	1379	CCTAGTTGTTG	TTATAGGTAAA	AAGCAGTTACAGAG 1414

RESULT 9  
US-08-508-786-1  
; Sequence 1, Application US/08508786  
; Patent No. 5837876  
; GENERAL INFORMATION:  
; APPLICANT: Konkling, Mark A.  
; APPLICANT: Mendu, Nandini  
; APPLICANT: Song, Wen  
; TITLE OF INVENTION: Root Cortex Specific Gene Promoter  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &  
; ADDRESSEE: Gibson  
; STREET: Post Office Drawer 34009  
; CITY: Charlotte  
; STATE: North Carolina  
; COUNTRY: USA  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/508,786  
; FILING DATE:  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 5051-294  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 919-881-3175  
; TELEFAX: 919-420-2200  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2010 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-508-786-1  
Query Match 100.0%; Score 456; DB 2; Length 2010;  
Best Local Similarity 100.0%; Pred. No. 8.2e-86;  
Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GGAACATATTCATACATTTGTTGCTACTCATATCGTAGAATCTTTGTGCGCTT 60  
bb 959 GGAACATATTCATACATTTGTTGCTACTCATATCGTAGAATCTTTGTGCGCTT 1018  
Qy 61 GCTAATAAGATACCTGAAATAGCTTTGTTGCTACTCATATCGTAGAATCTTTGTGCGCTT 120  
Db 1019 GCTAATAAGATACCTGAAATAGCTTTGTTGCTACTCATATCGTAGAATCTTTGTGCGCTT 1078  
Qy 121 ATTAGTATTTTGAGTTTAAATTTACTTTTGAAGTCTGTAACAGTTTATATAATTTTCAAGGCC 180  
Db 1079 ATTAGTATTTTGAGTTTAAATTTACTTTTGAAGTCTGTAACAGTTTATATAATTTTCAAGGCC 1138  
Qy 181 ATGAAAAATTTAATGCTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAA 240  
Db 1139 ATGAAAAATTTAATGCTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTT 1198  
Qy 241 TTTAATCGGTATAGTTCGATTTTCAATTTTATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA 300  
Db 1199 TTTAATCGGTATAGTTCGATTTTCAATTTTATTTTAAATTTTAAATTTTAAATTTTAAATTT 1258  
Qy 301 AATTATCGGTACAGTTATAGATTTATATAAAATCTACGGTCTTTCAGAGAAACCTTAA 360  
Db 1259 AATTATCGGTACAGTTATAGATTTATATAAAATCTACGGTCTTTCAGAGAAACCTTAA 1318

Qy 361 AATCGTTTCGGTCGGACGGTTCGATCGGTTTGTAGTCGATTTTCAAAATATTTCATTGACACT 420  
Db 1319 AATCGTTTCGGTCGGACGGTTCGATCGGTTTGTAGTCGATTTTCAAAATATTTCATTGACACT 1378  
Qy 421 CCTAGTTTGTGTTATAGTAAAGAGAGTTTACAGAG 456  
Db 1379 CCTAGTTTGTGTTATAGTAAAGAGAGTTTACAGAG 1414  
RESULT 10  
PCT-US96-12158-1  
; Sequence 1, Application PC/TUS9612158  
; GENERAL INFORMATION:  
; APPLICANT: Konkling, Mark A.  
; APPLICANT: Mendu, Nandini  
; APPLICANT: Song, Wen  
; TITLE OF INVENTION: Root Cortex Specific Gene Promoter  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &  
; ADDRESSEE: Gibson  
; STREET: Post Office Drawer 34009  
; CITY: Charlotte  
; STATE: North Carolina  
; COUNTRY: USA  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US96/12158  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 5051-294  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 919-881-3175  
; TELEFAX: 919-420-2200  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2010 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
PCT-US96-12158-1  
Query Match 100.0%; Score 456; DB 5; Length 2010;  
Best Local Similarity 100.0%; Pred. No. 8.2e-86;  
Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GGAACATATTCATACATTTGTTGCTACTCATATCGTAGAATCTTTGTGCGCTT 60  
Db 959 GGAACATATTCATACATTTGTTGCTACTCATATCGTAGAATCTTTGTGCGCTT 1018  
Qy 61 GCTAATAAGATACCTGAAATAGCTTTGTTGCTACTCATATCGTAGAATCTTTGTGCGCTT 120  
Db 1019 GCTAATAAGATACCTGAAATAGCTTTGTTGCTACTCATATCGTAGAATCTTTGTGCGCTT 1078  
Qy 121 ATTAGTATTTTGAGTTTAAATTTACTTTTGAAGTCTGTAACAGTTTATATAATTTTCAAGGCC 180  
Db 1079 ATTAGTATTTTGAGTTTAAATTTACTTTTGAAGTCTGTAACAGTTTATATAATTTTCAAGGCC 1138  
Qy 181 ATGAAAAATTTAATGCTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAA 240  
Db 1139 ATGAAAAATTTAATGCTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTT 1198  
Qy 241 TTTAATCGGTATAGTTCGATTTTCAATTTTATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA 300

Db 1199 TTTAATCGGTATAGTTCGATATTTTTCATATTTTATATAAAATAAAAACTTACCCT 1258  
Qy 301 AATTATCGGTACAGTTATAGATTATATAAAATCTACGGTTCTTCAGAGAAACCTTAAA 360  
Db 1259 AATTATCGGTACAGTTATAGATTATATAAAATCTACGGTTCTTCAGAGAAACCTTAAA 1318  
Qy 361 AATCGGTTCCGTCGGACGGTTCGATCGGTTTTCAGATTTTCAAAATATTCATTGACACT 420  
Db 1319 AATCGGTTCCGTCGGACGGTTCGATCGGTTTTCAGATTTTCAAAATATTCATTGACACT 1378  
Qy 421 CCTAGTTGTTGTTATAGTATAAAAGCAGTTACAGAG 456  
Db 1379 CCTAGTTGTTGTTATAGTATAAAAGCAGTTACAGAG 1414

RESULT 11  
US-08-508-786-6  
; Sequence 6, Application US/08508786  
; Patent No. 5837876  
; GENERAL INFORMATION:  
; APPLICANT: Konkling, Mark A.  
; APPLICANT: Mendu, Nandini  
; APPLICANT: Song, Wen  
; TITLE OF INVENTION: Root Cortex Specific Gene Promoter  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &  
; STREET: Post Office Drawer 34009  
; CITY: Charlotte  
; STATE: No 5837876th Carolina  
; COUNTRY: USA  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/508,786  
; FILING DATE:  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 5051-294  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 919-420-2200  
; TELEFAX: 919-881-3175  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 722 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-508-786-6

Query Match 32.5%; Score 148; DB 2; Length 722;  
Best Local Similarity 100.0%; Pred. No. 2.2e-22;  
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 309 GTACAGTTATAGATTATATAAAATCTACGGTTCTTCAGAGAAACCTTAAAATCGGTT 368  
Db 1 GTACAGTTATAGATTATATAAAATCTACGGTTCTTCAGAGAAACCTTAAAATCGGTT 60  
Qy 369 CGGTGCGGACGGTTCGATCGGTTTTCAGATTTTCAAAATATTCATTGACACTCCTAGTTG 428  
Db 61 CGGTGCGGACGGTTCGATCGGTTTTCAGATTTTCAAAATATTCATTGACACTCCTAGTTG 120  
Qy 429 TTGTTATAGGTAAGGAGCAGTTACAGAG 456  
Db 121 TTGTTATAGGTAAGGAGCAGTTACAGAG 148

RESULT 12  
PCT-US96-12158-6  
; Sequence 6, Application PC/TUS9612158  
; GENERAL INFORMATION:  
; APPLICANT: Konkling, Mark A.  
; APPLICANT: Mendu, Nandini  
; APPLICANT: Song, Wen  
; TITLE OF INVENTION: Root Cortex Specific Gene Promoter  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &  
; STREET: Post Office Drawer 34009  
; CITY: Charlotte  
; STATE: North Carolina  
; COUNTRY: USA  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US96/12158  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 5051-294  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 919-420-2200  
; TELEFAX: 919-881-3175  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 722 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
PCT-US96-12158-6  
Query Match 32.5%; Score 148; DB 5; Length 722;  
Best Local Similarity 100.0%; Pred. No. 2.2e-22;  
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 309 GTACAGTTATAGATTATATAAAATCTACGGTTCTTCAGAGAAACCTTAAAATCGGTT 368  
Db 1 GTACAGTTATAGATTATATAAAATCTACGGTTCTTCAGAGAAACCTTAAAATCGGTT 60  
Qy 369 CGGTGCGGACGGTTCGATCGGTTTTCAGATTTTCAAAATATTCATTGACACTCCTAGTTG 428  
Db 61 CGGTGCGGACGGTTCGATCGGTTTTCAGATTTTCAAAATATTCATTGACACTCCTAGTTG 120  
Qy 429 TTGTTATAGGTAAGGAGCAGTTACAGAG 456  
Db 121 TTGTTATAGGTAAGGAGCAGTTACAGAG 148  
RESULT 13  
US-08-998-416-288  
; Sequence 288, Application US/08998416  
; Patent No. 6239264  
; GENERAL INFORMATION:  
; APPLICANT: Philippsen, Peter  
; APPLICANT: Pohlmann, Rainer  
; APPLICANT: Steiner, Sabine  
; APPLICANT: Mohr, Christine  
; APPLICANT: Wendland, Jurgen  
; APPLICANT: Knechtel, Philipp  
; APPLICANT: Reibischung, Corinne

```

; TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSYPPII
; TITLE OF INVENTION: AND USES THEREOF
; NUMBER OF SEQUENCES: 1152
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6239264artis Corporation
; STREET: 3054 Cornwalis Road
; CITY: Research Triangle Park
; STATE: No. 6239264th Carolina
; COUNTRY: USA
; ZIP: 27709
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/998,416
; FILING DATE: 24-DEC-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: CH 0016/97
; FILING DATE: 31-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timothy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: PF/5-30306/A/CGC1976
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8587
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 288:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 837 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: PAG1241RP
; US-08-998-416-288

Query Match 13.3%; Score 60.6; DB 3; Length 837;
Best Local Similarity 51.1%; Pred. No. 0.00023;
Matches 168; Conservative 0; Mismatches 159; Indels 2; Gaps 1;

Qy 4 AACATATTCAATCATTTGCTAGTTGCTACTCATATCGCTAGATACTTTGTGCGCTTGCT 63
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 64 AATAAGATACCTTGAATAGCTTAGTTTAAATATATAATAGCATATAGATTTTAGGAAT 123
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 124 AGTATTTTGAGTTTAAATTAATCTATTG--ACTGTGACAGTTTATATAATCCAAAGCCCA 181
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 354 TAAAGATTTAATTTATTTAAATATGTAATTTATTTTATTAATATATCTATTTTAA 413
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 182 TGAATAATTTAAGCTTTATAGTTTAACTTACTATATAAAATTTTTCATATGTAAT 241
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 414 TAAATATTATGTTGATTATATATTATTAATCTTTTATAAGAAATTTATTAATAAT 473
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 242 TTAATCGGTAGTTCGATATTTTTCATATTTTATTAATAATAAAACCTTACCCTTA 301
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 474 TTTAACTTTAAATTTCTTATTTATTAATTTTATATATTTTAAATAAATATATTCATTTTA 533
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 302 ATTATCGGTACAGTTATFAGATTTATATAA 330
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 534 TTTATTATTATTATTAAATTAATAATTA 562
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 14
US-09-641-638-651
; Sequence 651, Application US/09641638
; Patent No. 6432648

; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Chumakov, Ilya
; APPLICANT: Cohen, Annick
; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
; FILE REFERENCE: GENSET.051CPI
; CURRENT APPLICATION NUMBER: US/09/641,638
; CURRENT FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 09/502,330
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: US 60/133,200
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: US 09/275,267
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: US 60/119,917
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 1304
; SOFTWARE: Patent.pm
; SEQ ID NO 651
; LENGTH: 20674
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1123..3123
; OTHER INFORMATION: 5'regulatory region
; NAME/KEY: exon
; LOCATION: 3124..3297
; OTHER INFORMATION: exon 1
; NAME/KEY: exon
; LOCATION: 3871..4072
; OTHER INFORMATION: exon 2
; NAME/KEY: exon
; LOCATION: 5552..5633
; OTHER INFORMATION: exon 3
; NAME/KEY: exon
; LOCATION: 5758..5880
; OTHER INFORMATION: exon 4
; NAME/KEY: exon
; LOCATION: 5996..6099
; OTHER INFORMATION: exon 5
; NAME/KEY: exon
; LOCATION: 6349..6509
; OTHER INFORMATION: exon 6
; NAME/KEY: exon
; LOCATION: 7379..7522
; OTHER INFORMATION: exon 7
; NAME/KEY: exon
; LOCATION: 8645..8854
; OTHER INFORMATION: exon 8
; NAME/KEY: exon
; LOCATION: 12254..12340
; OTHER INFORMATION: exon 9
; NAME/KEY: exon
; LOCATION: 12854..13023
; OTHER INFORMATION: exon 10
; NAME/KEY: exon
; LOCATION: 13308..13429
; OTHER INFORMATION: exon 11
; NAME/KEY: exon
; LOCATION: 16567..16667
; OTHER INFORMATION: exon 12
; NAME/KEY: exon
; LOCATION: 16775..16945
; OTHER INFORMATION: exon 13
; NAME/KEY: exon
; LOCATION: 17063..17554
; OTHER INFORMATION: exon 14
; NAME/KEY: misc feature
; LOCATION: 17555..20674
; OTHER INFORMATION: 3'regulatory region
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 3, 2004, 19:52:20 ; Search time 339 Seconds  
(without alignments)  
6595.374 Million cell updates/sec

Title: US-09-941-042C-1

Perfect score: 456  
Sequence: 1 ggaacatattcaatacatt.....ggtaaaagcaggtacagag 456

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 3222919 seqs, 2451570024 residues

Total number of hits satisfying chosen parameters: 6445838

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA:\*

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7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
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9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*  
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11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*  
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13: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq.\*  
14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	456	100.0	456	13	US-09-941-042C-1
2	456	100.0	456	17	US-10-363-069-1
3	66.6	14.6	5145	15	US-10-311-455-321
4	66.6	14.6	5145	15	US-10-240-485-17
5	66.4	14.6	8305	15	US-10-311-455-1541
6	61	13.4	6175	15	US-10-311-455-1280
7	61	13.4	158001	17	US-10-211-179-11
8	60.4	13.2	18997	15	US-10-172-086-17
9	60.4	13.2	18997	15	US-10-311-455-543
10	60.4	13.2	18997	17	US-10-311-507-31
11	60.2	13.2	5925	15	US-10-311-455-1549
12	60	13.2	8305	15	US-10-311-455-1542
13	59.6	13.1	5407	15	US-10-311-455-2064
14	59.4	13.0	20674	16	US-10-170-097-651

15	59	12.9	158001	17	US-10-211-179-11	GENERAL INFORMATION
16	58.2	12.8	858	13	US-10-198-846-7035	Sequence 7035, Ap
17	58.2	12.8	8842	15	US-10-240-454-30	Sequence 30, Appl
18	58.2	12.8	8842	15	US-10-311-455-1422	Sequence 1422, Ap
19	58	12.7	6062	13	US-10-221-613-50	Sequence 50, Appl
20	58	12.7	8197	15	US-10-240-485-68	Sequence 68, Appl
21	58	12.7	3673778	15	US-10-312-841-1	Sequence 1, Appl
22	57.6	12.6	6050	13	US-10-221-714A-518	Sequence 518, Ap
23	57.6	12.6	6050	15	US-10-172-086-50	Sequence 50, Appl
24	57.6	12.6	6050	15	US-10-311-455-2102	Sequence 2102, Ap
25	57.6	12.6	6050	17	US-10-311-507-20	Sequence 20, Appl
26	57.6	12.6	10279	15	US-10-311-455-1564	Sequence 1564, Ap
27	57.6	12.6	10279	17	US-10-240-589C-86	Sequence 86, Appl
28	57.2	12.5	8085	13	US-10-221-714A-201	Sequence 201, Appl
29	57.2	12.5	8085	15	US-10-172-086-39	Sequence 39, Appl
30	57.2	12.5	8085	17	US-10-311-507-71	Sequence 71, Appl
31	57	12.5	10886	15	US-10-311-455-2108	Sequence 2108, Ap
32	57	12.5	16258	17	US-10-257-166-120	Sequence 120, Appl
33	57	12.5	53332	9	US-09-801-861-3	Sequence 3, Appl
34	57	12.5	53332	15	US-10-224-562-3	Sequence 4, Appl
35	56.8	12.5	91352	17	US-10-300-611-4	Sequence 226, Appl
36	56.6	12.4	6013	13	US-10-221-613-226	Sequence 32, Appl
37	56.6	12.4	6095	13	US-10-221-714A-32	Sequence 324, Appl
38	56.6	12.4	6095	15	US-10-311-455-334	Sequence 28, Appl
39	56.6	12.4	6095	15	US-10-240-485-28	Sequence 598, Appl
40	56.6	12.4	16217	15	US-10-311-455-598	Sequence 863, Appl
41	56.4	12.4	6131	15	US-10-311-455-863	Sequence 214, Appl
42	56.4	12.4	6631	15	US-10-240-453-214	Sequence 2128, Ap
43	56.4	12.4	15548	15	US-10-311-455-2128	Sequence 73, Appl
44	56.2	12.3	5152	15	US-10-204-708-73	Sequence 115, Appl
45	56.2	12.3	5152	17	US-10-240-589C-115	

## ALIGNMENTS

RESULT 1  
US-09-941-042C-1  
; Sequence 1, Application US/09941042C  
; Publication No. US20030018997A1  
; GENERAL INFORMATION:  
; APPLICANT: Conkling, Mark A.  
; APPLICANT: Li, Yan  
; TITLE OF INVENTION: TRANSGENIC PLANTS CONTAINING MOLECULAR DECOYS THAT ALTER PROTEIN  
; TITLE OF INVENTION: THEREIN  
; FILE REFERENCE: 5051-471W0  
; CURRENT APPLICATION NUMBER: US/09/941,042C  
; CURRENT FILING DATE: 2002-08-20  
; PRIOR APPLICATION NUMBER: US 60/229,198  
; PRIOR FILING DATE: 2000-08-30  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 456  
; TYPE: DNA  
; ORGANISM: Nicotiana tabacum  
US-09-941-042C-1

Query Match	100.0%	Score 456	DB 13	Length 456
Best Local Similarity	100.0%	Pred. No. 1.2e-69		
Matches 456	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	GGAAACATATTCATACATTCGCTACTCATATCGCTAGATACTTTGTGCTTT	60	
Db	1	GGAAACATATTCATACATTCGCTACTCATATCGCTAGATACTTTGTGCTTT	60	
QY	61	GCTAATAAGATACCTTGAATAGCTTAGTTAAATATAAATAGCATAATAGATTTAGGA	120	
Db	61	GCTAATAAGATACCTTGAATAGCTTAGTTAAATATAAATAGCATAATAGATTTAGGA	120	
QY	121	ATTAGTATTTGAGTTTAACTTACTTATGACTGTGAACAGTTTTTATATTCAGAGCCC	180	
Db	121	ATTAGTATTTGAGTTTAACTTACTTATGACTGTGAACAGTTTTTATATTCAGAGCCC	180	



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; APPLICANT: PIERPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with
; FILE OF INVENTION: Metastasis
; FILE REFERENCE: 5013.1007
; CURRENT APPLICATION NUMBER: US/10/240,485
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: PCT/EP01/03970
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 202
; SEQ ID NO 17
; LENGTH: 5145
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-240-485-17

Query Match      14.6%; Score 66.6; DB 15; Length 5145;
Best Local Similarity 51.9%; Pred. No. 0.044;
Matches 176; Conservative 0; Mismatches 159; Indels 4; Gaps 1;

QY 4 AACATATTCATACATCTGAGTTGCTACTCATATCGCTAGATACCTTTGTCCTTCT 63
DB 511 AATATATTTTAAAGTTTAAAGTTTAAATATTTTGGGTATTTATTTGCGGTGTTT 570

QY 64 AATAAGATACCTTGAATAGCTTACTTTAAATATATAATATTAATTTTAAATTTG 123
DB 571 TATGTTTACGAGGATATATATTTTAAATATTTTAAATGTTGTTTTTTTAAATTTG 630

QY 124 AGTATTTGAGTTTAAATCTACTTATTTGACTTGTAAACAGTTTTTATAATTCGAAGCCCATG 183
DB 631 TTTTATTTTATGTTTATAGGTTTATAGGTTTATAGTAAAGATTTTAAAGATTAAGAG 686

QY 184 AAAAAATTAATCTTTTATTTTAACTTACTATATAAAATTTTCTATATGTAATAATTT 243
DB 687 AAAAAAGATTAATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 746

QY 244 AATCGGTATAGTTCGATATTTTTCATATTTTTCATATTTTATTTTATTTTATTTTATTTT 303
DB 747 TCTTTATATATGATTTATTTTAAATTTTATTTTATTTTATTTTATTTTATTTTATTTTAA 806

QY 304 TATCGGTACAGTTATAGATTTTATATAATAAAATCTACGGTT 342
DB 807 TTTTGTGTTTAAATATTTCTAGTATATAATAATTTATAGTT 845

RESULT 5
US-10-311-455-1541/c
; Sequence 1541, Application US/10311455
; Publication No. US20030143606A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIERPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determ
; FILE OF INVENTION: cytosine methylation
; FILE REFERENCE: 5013.1014
; CURRENT APPLICATION NUMBER: US/10/311,455
; CURRENT FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: PCT/EP01/07537
; PRIOR FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 2424
; SEQ ID NO 1280
; LENGTH: 6175
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-311-455-1280

Query Match      13.4%; Score 61; DB 15; Length 6175;
Best Local Similarity 48.7%; Pred. No. 0.43;
Matches 166; Conservative 0; Mismatches 175; Indels 0; Gaps 0;

QY 7 ATATTCAATACATCTGCTTCTACTCATATTCGCTAGAAATCTTTGCGCTTCTAAT 66

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; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 2424
; SEQ ID NO 1541
; LENGTH: 8305
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-311-455-1541

Query Match      14.6%; Score 66.4; DB 15; Length 8305;
Best Local Similarity 49.2%; Pred. No. 0.056;
Matches 175; Conservative 0; Mismatches 181; Indels 0; Gaps 0;

QY 8 TATTCAATACATCTGCTTCTACTCATATTCGCTAGAAATCTTTGTCCTTCTGCTAATA 67
DB 6424 TATTATTATATAAATAATATATATTTAAATATATATATATATATATATATATATATATATTA 6365

QY 68 AAGATACCTTGAATAGCTTGTATTTTAAATATATAAATAGCATATAGATTTTAGGAATTAGTA 127
DB 6364 AAAAAATATATATATATATTTATCAATATATATAATACATATACATATATATATATATATAA 6305

QY 128 TTTTGTAGTTTAAATCTTATTTGCTTGTACAGTTTTTATATATTTCCAGGCCCATGAAA 187
DB 6304 TAATATATATAAATATATATATATATATATATATATATATATATATATATATATATATAT 6245

QY 188 ATTTAATGCTTTTATTTAGTTTAAACTTACTATATAAATTTTTCATATGTAATAATTTAATC 247
DB 6244 AATATATATATATATCTATATATATATATATATATATATATATATATATATATATATATAT 6185

QY 248 GGTATAGTTCGATATTTTTCATATTTTAAATATATATATATATATATATATATATATATAT 307
DB 6184 TAATATATATATATATATATATATATATATATATATATATATATATATATATATATATAT 6125

QY 308 GGTACAGTTATAGATTTTATATAAATACTACGGTTCTTCAGAGAAACCTTAAATAT 363
DB 6124 TATATTTTATATATATATATATATATATATATATATATATATATATATATATATATAT 6069

RESULT 6
US-10-311-455-1280
; Sequence 1280, Application US/10311455
; Publication No. US20030143606A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIERPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determ
; FILE OF INVENTION: cytosine methylation
; FILE REFERENCE: 5013.1014
; CURRENT APPLICATION NUMBER: US/10/311,455
; CURRENT FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: PCT/EP01/07537
; PRIOR FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 2424
; SEQ ID NO 1280
; LENGTH: 6175
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-311-455-1280

Query Match      13.4%; Score 61; DB 15; Length 6175;
Best Local Similarity 48.7%; Pred. No. 0.43;
Matches 166; Conservative 0; Mismatches 175; Indels 0; Gaps 0;

QY 7 ATATTCAATACATCTGCTTCTACTCATATTCGCTAGAAATCTTTGCGCTTCTAAT 66

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Query Match 13.2%; Score 60; DB 15; Length 8305;  
Best Local Similarity 48.0%; Pred. No. 0.71;  
Matches 171; Conservative 0; Mismatches 185; Indels 0; Gaps 0;  
QY 8 TATTCAATACATGCTTAGCTTAAATATAAATAGCATATAGATTTTAAAGGAATTAGTA 127  
DB 1882 TATTATATATAAATAATATATAGTTTAAATATATATATATATATATATATATATATTA 1941  
QY 68 AAGTACTTGAATAGCTTAGCTTAAATATAAATAGCATATAGATTTTAAAGGAATTAGTA 127  
DB 1942 AGAAATATATTATTA 2001  
QY 128 TTTTGAGTTTAATTAATGCTTGTAAACAGTTTAAATATAAATAGCATATAGATTTTAAAGGAATTAGTA 187  
DB 2002 TAATATATATAAATAAT 2061  
QY 188 ATTTAAAGCTTTTATAGCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACT 247  
DB 2062 AATTA 2121  
QY 248 GGTATAGTTCGATATATTTTCAATTTTAAATATAAATAGCATATAGATTTTAAAGGAATTAGTA 307  
DB 2122 TAATTA 2181  
QY 308 GGTACAGTTTATAGATTTTAAATATAAATAGCATATAGATTTTAAAGGAATTAGTA 363  
DB 2182 TATATTTTAT 2237  
RESULT 13  
US-10-311-455-2064  
; Sequence 2064, Application US/10311455  
; Publication No. US20030143606A1  
; GENERAL INFORMATION:  
; APPLICANT: OLEK, Alexander  
; APPLICANT: PIEPENBROCK, Christian  
; APPLICANT: BERLIN, Kurt  
; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determining Methylation Levels of Cytosine Residues  
; FILE REFERENCE: 5013.1014  
; CURRENT APPLICATION NUMBER: US/10/311.455  
; PRIOR FILING DATE: 2002-12-16  
; PRIOR APPLICATION NUMBER: PCT/EP01/07537  
; PRIOR FILING DATE: 2001-07-02  
; PRIOR APPLICATION NUMBER: DE 10032529.7  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: DE 10043826.1  
; PRIOR FILING DATE: 2000-09-01  
; NUMBER OF SEQ ID NOS: 2424  
; SEQ ID NO 2064  
; LENGTH: 5407  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-311-455-2064

Query Match 13.1%; Score 59.6; DB 15; Length 5407;  
Best Local Similarity 50.7%; Pred. No. 0.73;  
Matches 143; Conservative 0; Mismatches 139; Indels 0; Gaps 0;  
QY 64 AATAAGATACATTTGAAATAGCTTAAATATAAATAGCATATAGATTTTAAAGGAATTAGTA 123  
DB 4377 ATTATTTTATTTTGGAAATTTGTTTATTAATATATATATATATATATATATATATATTA 4436  
QY 124 AGTATTTTGGATTTTAAATAGCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACT 183  
DB 4437 TAAATTTGCGAAATATAAATATAGATTTTAAAGGAATTAGTAATATAAATAAATAA 4496  
QY 184 AAAAATTTAAATGCTTTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACT 243  
DB 4497 AAAATATTTGATTTTGGTATTTAGTATTTATGTTAAATTTAAATTTATATATATATTA 4556  
QY 244 AATCGGTATAGTTCGATATATTTTCAATTTTAAATATAAATAGCATATAGATTTTAAAGGAATTAGTA 303  
DB 4557 TATTTATAGATTTTGGATTTTAAATGATATATATATATATATATATATATATATATTA 4616  
QY 304 TATCGGTACAGTTTATAGATTTTAAATATAAATAGCATATAGATTTTAAAGGAATTAGTA 345  
DB 4617 TTTTAAATTTGTTATATATATATATATATATATATATATATATTTTGTGTTATT 4658  
RESULT 14  
US-10-170-097-651  
; Sequence 651, Application US/10170097  
; Publication No. US20030228592A1  
; GENERAL INFORMATION:  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Chumakov, Ilya  
; APPLICANT: Cohen, Annick  
; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING  
; FILE REFERENCE: GEN-T114XC2D1  
; CURRENT APPLICATION NUMBER: US/10/170,097  
; CURRENT FILING DATE: 2002-06-10  
; PRIOR APPLICATION NUMBER: US 09/641,638  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: US 09/502,330  
; PRIOR FILING DATE: 2000-02-11  
; PRIOR APPLICATION NUMBER: US 60/133,200  
; PRIOR FILING DATE: 1999-05-07  
; PRIOR APPLICATION NUMBER: US 09/275,267  
; PRIOR FILING DATE: 1999-03-23  
; PRIOR APPLICATION NUMBER: US 60/119,917  
; PRIOR FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 1304  
; SOFTWARE: Patent.pm  
; SEQ ID NO 651  
; LENGTH: 20674  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 1123..3123  
; OTHER INFORMATION: 5'regulatory region  
; FEATURE:  
; NAME/KEY: exon  
; LOCATION: 3124..3297  
; OTHER INFORMATION: exon 1  
; FEATURE:  
; NAME/KEY: exon  
; LOCATION: 3871..4072  
; OTHER INFORMATION: exon 2  
; FEATURE:  
; NAME/KEY: exon  
; LOCATION: 5552..5633  
; OTHER INFORMATION: exon 3  
; FEATURE:  
; NAME/KEY: exon



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LOCATION: 5758..5880
OTHER INFORMATION: exon 4
FEATURE:
NAME/KEY: exon
LOCATION: 5996..6099
OTHER INFORMATION: exon 5
FEATURE:
NAME/KEY: exon
LOCATION: 6349..6509
OTHER INFORMATION: exon 6
FEATURE:
NAME/KEY: exon
LOCATION: 7379..7522
OTHER INFORMATION: exon 7
FEATURE:
NAME/KEY: exon
LOCATION: 8645..8854
OTHER INFORMATION: exon 8
FEATURE:
NAME/KEY: exon
LOCATION: 12254..12340
OTHER INFORMATION: exon 9
FEATURE:
NAME/KEY: exon
LOCATION: 12854..13023
OTHER INFORMATION: exon 10
FEATURE:
NAME/KEY: exon
LOCATION: 13308..13429
OTHER INFORMATION: exon 11
FEATURE:
NAME/KEY: exon
LOCATION: 16567..16667
OTHER INFORMATION: exon 12
FEATURE:
NAME/KEY: exon
LOCATION: 16775..16945
OTHER INFORMATION: exon 13
FEATURE:
NAME/KEY: exon
LOCATION: 17063..17554
OTHER INFORMATION: exon 14
FEATURE:
NAME/KEY: misc feature
LOCATION: 17555..20674
OTHER INFORMATION: 3'regulatory region
FEATURE:
NAME/KEY: allele
LOCATION: 1128
OTHER INFORMATION: 10-508-191 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 1182
OTHER INFORMATION: 10-508-245 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 1559
OTHER INFORMATION: 10-509-284 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 1570
OTHER INFORMATION: 10-509-295 : deletion of C
FEATURE:
NAME/KEY: allele
LOCATION: 1827
OTHER INFORMATION: 10-510-173 : variable motif ATTGA or TTTTTT
FEATURE:
NAME/KEY: allele
LOCATION: 2048
OTHER INFORMATION: 10-511-62 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 2323
OTHER INFORMATION: 10-511-337 : insertion of T
FEATURE:
NAME/KEY: allele
LOCATION: 2341
OTHER INFORMATION: 10-512-36 : polymorphic base G or C
FEATURE:
NAME/KEY: allele
LOCATION: 2623
OTHER INFORMATION: 10-512-318 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 2832
OTHER INFORMATION: 10-513-250 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 2844
OTHER INFORMATION: 10-513-262 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 2934
OTHER INFORMATION: 10-513-352 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 2947
OTHER INFORMATION: 10-513-365 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 3802
OTHER INFORMATION: 12-206-81 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 4062
OTHER INFORMATION: 10-343-231 : deletion of C
FEATURE:
NAME/KEY: allele
LOCATION: 4088
OTHER INFORMATION: 12-206-366 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 4109
OTHER INFORMATION: 10-343-278 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 4170
OTHER INFORMATION: 10-343-339 : polymorphic base G or T
FEATURE:
NAME/KEY: allele
LOCATION: 5903
OTHER INFORMATION: 10-346-23 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 6019
OTHER INFORMATION: 10-346-141 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 6141
OTHER INFORMATION: 10-346-263 : polymorphic base G or C
FEATURE:
NAME/KEY: allele
LOCATION: 6183
OTHER INFORMATION: 10-346-305 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 6338
OTHER INFORMATION: 10-347-74 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 6375
OTHER INFORMATION: 10-347-111 : polymorphic base G or C
FEATURE:
NAME/KEY: allele
LOCATION: 6429
OTHER INFORMATION: 10-347-165 : polymorphic base C or T
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FEATURE:  
; NAME/KEY: allele  
; LOCATION: 6467  
; OTHER INFORMATION: 10-347-203 : polymorphic base A or G  
; FEATURE:  
; NAME/KEY: allele  
; LOCATION: 6484  
; OTHER INFORMATION: 10-347-220 : polymorphic base A or G

Query Match 13.0%; Score 59.4; DB 16; Length 20674;  
Best Local Similarity 49.5%; Pred. No. 1.2;  
Matches 153; Conservative 0; Mismatches 156; Indels 0; Gaps 0;  
Qy 51 TTGTGCGCTTGCCTAATAAGATAGTCTGAAATAGCTTAGTTTAAATATATAAGATAGCATAATA 110  
Db 11064 TTTTAAATAGCTAAGGAAATATTTTAAATATTTTAAATATTTTAAATATTTTAAATATTTTAA 11123  
Qy 111 GATTTAGGAATTAGTATTTTGAGTTTAAATTTACTTTATGCTTGTGAACAGTTTTTTATAAT 170  
Db 11124 TTTAAATTTAAATTTTAAATTTAATTTAAATTTAAATTTTAAATTTTAAATTTAAATTTAA 11183  
Qy 171 TCGAGGCCCATGAAAATTTAATGCTTTTATAGTTTAAACTTACTATATAAATTTTTC 230  
Db 11184 AATTTAAATAAATTTAAATTTAAATTTAAATTTAAATTTTAAATTTAAATTTTAAATTTT 11243  
Qy 231 ATATGTAATTTAATCGGTATAGTTCGATATTTTCAATTTTATTTTAAATTTTAAATTTAA 290  
Db 11244 AATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTTAAATTTTAAATTTTAA 11303  
Qy 291 AACTTACCCTAATATCGGTACAGTTATAGATTTATATAAAAATCTACGGTTCTTCAGAA 350  
Db 11304 ATTTAACTTAATTTTAAATTTAAATTTAAATTTAAATTTTAAATTTTAAATTTTAAAT 11363  
Qy 351 GAAACCTAA 359  
Db 11364 TTAATTTAA 11372

RESULT 15  
US-10-211-179-11  
; GENERAL INFORMATION:  
; APPLICANT: Nicholas M. Dean  
; APPLICANT: Kenneth W. Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHOTYROSYL PHOSPHATASE ACTIVATOR EXP  
; FILE REFERENCE: PTS-0011  
; CURRENT APPLICATION NUMBER: US/10/211.179  
; CURRENT FILING DATE: 2002-08-01  
; NUMBER OF SEQ ID NOS: 119  
; OTHER INFORMATION: n = a, t, c, or g  
US-10-211-179-11

Query Match 12.9%; Score 59; DB 17; Length 158001;  
Best Local Similarity 49.6%; Pred. No. 2.6;  
Matches 180; Conservative 0; Mismatches 180; Indels 3; Gaps 1;  
Qy 3 AAACATATTCATACATTTGCTAGTTTGTCTATCATATCGCTAGAAATCTTTGTGCGCTTGC 62  
Db 127195 AAATATATATATATATATATATAAATATAAATATAATATATATATATATATATAA 127254  
Qy 63 TAATAAAGATCTTGAATAGCTTAA---GTTTAAATATAAATAGCATAAATAGATTTTGG 119  
Db 127255 TATATAAATATATAAATATATATATATAAATATAAATATAAATATAAATATATATA 127314  
Qy 120 AATTAGTATTTTGGATTTTAAATTTACTTATGCTTGTGAACAGTTTTTATTAATTTCCAGGCC 179  
Db 127315 TATAAATATAAATAATATAAATATAAATATAAATATAAATATAAATATAAATATAA 127374  
Qy 180 CATGAAAATTTAATGCTTTTATAGTTTAAACCTTACTATATAAATTTTTCATATGTAAA 239  
Db 127375 ATTATATATAAATATAAATAATATAAATATAAATATAAATATAAATATAAATATAA 127434  
Qy 240 ATTTAATCGGTATAGTTGGATATTTTTCATATTTTTCATATTTTTCATATAAATAAATTTACCC 299

Db 127435 ATATATATTATATATAAATATATAAATATATAAATATATAAATAAATATACAATATATA 127494  
Qy 300 TAATTTATCGGTACAGTTATAGATTTTATATAAATAATCTACGGTTCTTCAGAGAACTAA 359  
Db 127495 TATATAAATATATAAATATATAAATATATAAATAAATATATAAATATATAAATATA 127554  
Qy 360 AAA 362  
Db 127555 AAA 127557

Search completed: August 3, 2004, 20:51:30  
Job time : 347 secs